

**CROSBY HIGH MAN  
IN THIRD HANDICAP  
RACES OF SEASON**

Men Entering Several Events  
Apiece Make Competition  
Good In All Cases

**SOPHOMORES SCORE HIGH**

Diverging from their stiff schedule of training for the fall track season, the Technology squads, both freshman and varsity, engaged in a handicap meet last Saturday afternoon. High scorer for the meet was Crosby, who won the high jump, the high hurdles, and took second in the low hurdles. Time for these three races was not unusual, but was good in the light of comparison with the other marks set this season.

Second high man was Dick Bell, who captured both of the dashes, leading the trailing men across by a short margin in each case. Bell ran from scratch in both of the races, and overhauled the men with handicaps without much difficulty. He is running as well this year as last, apparently, but there is yet, it seems, not any promise of the ten-second man, which looked so possible last year.

Men Enter Several Events Apiece  
Lockhart was the next most prominent man, taking places in three events, winning the low hurdles, taking second in the high hurdles, following Crosby to the tape, and third in the 90-yard dash, behind Dick Bell and Keefe.

Among the middle-distance men, mingled with a few cross-country men, the competition was strong, and every place was hotly contested. Of the three races, two were won by freshmen, the "440" and the three-quarter-mile run, Gleason, running with a start from scratch, taking the former, and Buresch, also from scratch, winning the longer run. Second places in both of these races were carried by the freshmen also, with Piotrowski in the "440" and Boyajian in the three-quarter-mile trip.

Cross-Country Men in Two-Mile  
Two-milers were dominated by Mann with a 75-yard handicap, who finished well up ahead. He was trailed by Kearns, the diminutive varsity cross-country star, running from scratch, and Holby, a freshman barrier ace.

Field events were not as popular on the basis of entries, as the track events, but among the men competing, there was lots of sport, as they were pretty well matched. Rimbach took the hammer without a great deal of trouble, in spite of the handicap of having to use the sixteen-pound hammer. His winning throw was 117 feet, as compared to the next man, Prestwich, who heaved the twelve-pound ball out 114 feet.

Same Mark for Hammer and Discus  
A curious coincidence occurred in the course of the afternoon, the distances for both the hammer and the discus being the same. A freshman, Greenlaw, took the discus, hurling it 117 feet, his opponents being two other freshmen, Lippold and Fox, who cleaned up the event in the order named.

Coaches Hedlund and Bowie are pleased with the support that this meet received from the track men, as the list of entries was rather small until immediately before the meet. The day, although windy and cold, was not bad for running, and seemed to produce rather a good effect on the men.

Dorm Meet Called Off  
Next week, instead of the scheduled Dorm meet, there will be an inter-class meet to fill its place. This will be the annual fall inter-class meet, which has taken place for many years as a regular part of the Institute track program. The Dorm meet has been called off on the advice of the medical department, because so few of the expected competitors have been training enough to make the meet a safe affair.

**Cat Connects Humor  
And Technology In  
His Latest Voo Doo**

Annual Faculty Issue Appears  
On Stands Today; Much  
Institute Humor

Connecting as much of his funny stuff as possible with the Institute and making the professors bear the brunt of his attack, Phosphorus offers the latest Voo Doo to the students this morning.

The recent change of policy of the cat and the managing board to link the material in the humor magazine with the Institute and the student body bears fruit at this time. Instead of He and Him, John and Jim now make the cracks.

Art Work Good  
Again this issue, Voo Doo brings out a magazine with good art work. But the literary material does not fall far behind, with several jokes in particular causing hearty laughs from those privileged to see the advance copy.

Of course, the Faculty members are the subject of much of the material in this issue. Some of it is really humorous, getting away from the typical Voo Doo style, and for that reason one will probably find the magazine worth the quarter that Phosphorus and his helpers demand when they are separated from a copy.

**LOWELL INSTITUTE  
TO HOLD LECTURES**

"The Introduction of the Ironclad Warship," is the title of a series of illustrated lectures to be given by James Phinney Baxter, 3d, associate professor of History at Harvard, to the Lowell Institute. The lectures will be held at Huntington Hall, 491 Boylston Street. Each one will start at 8 o'clock. The first will be held Tuesday, November 17, and they will be held every Tuesday and Friday from then until December 11. Tickets may be obtained free of charge by applying by mail to the Curator of the Lowell Institute, and enclosing a stamped, addressed envelope for each ticket.

**Large Audience Sees  
Benefit Show Given  
By Chinese Students**

Eight-Year-Old Girl Makes Big  
Hit In All-Star Cast  
Of Program

Miss Hilda Yee, tiny eight-year-old entertainer, stole the limelight from dozens of more experienced performers in the benefit show for the China Flood Relief Fund which was held Friday evening in Jordan Hall under the direction of the Chinese Students' Club of Technology. In the eyes of a large and well pleased audience, her performances were the high spots of the program. The guest speakers of the evening were the Hon. Frederick W. Cook, Secretary of the State of Massachusetts, and Dr. Tehyi Hsieh, who is well known among Chinese in Boston.

Chinese atmosphere was given to the show by the music and opera selections. Orchestral music was supplied by students in the New England Conservatory of Music, under the direction of Ippocraten Pappoutfakin.

**T. C. A. Drive Fails  
To Make Annual  
Budget By \$475**

Drive Workers Report Average  
Contribution of \$1.45  
Per Student

Failing by \$475 to reach its goal of \$5100, the drive to secure funds to maintain the Technology Christian Association closed last Friday evening at 6 o'clock. At that time contributions of \$4625.60 had been reported by the 194 drive workers, an average of \$1.45 for each of the 3197 Technology students. During last year's drive an average of \$1.80 per student was received. The total number of donors in this year's drive was 1423. A large part of the total given was not in cash but was pledged through the Bursar's office, \$3363.10 being given in this manner. (Continued on Page Three)

**Eliminate Last Of  
Seeded Players In  
Tennis Tournament**

Howard and Koerner Winners  
In Games That Defeat  
Seeded Men

Tennis followers had some surprises this past weekend when both of the seeded players went down to quick defeats. Tommy Regan lost in very short order to W. E. Howard, the Navy player, who is taking graduate work at the Institute. A bigger upset was recorded in the defeat of Dick Hanley by K. Koerner in two straight sets. This eliminates all of the seeded players in the tournament, with two players who were not ranked in the play as finalists.

It is a very unusual thing for all the ranking players to be eliminated from the final round. Ross and Feustel, seeded one and four, respectively, were eliminated last week in the quarter-final play. Then the elimination of both Regan and Hanley in the semi-finals left the regular team without a representative in the finals.

**Howard Shows Best Form**

Howard made rather quick work of Regan in their match together. A hard service and a nice, all-around game allowed Regan only three games in two sets. In addition, Regan succeeded in breaking a string in the first game, which hindered much in the placing of his usually steady drive. The score of the match was 6-1, 6-2.

**Hanley Eliminated**

In the other semi-final match, an erratic match resulted in the elimination of Dick Hanley. Koerner, playing a hard but erratic game, took Hanley over in straight sets, 6-3, 6-2. The latter's flat drive was not working at all in the cold weather yesterday. Koerner was putting a lot of top on the ball, both on his drives and his service. A very nice backhand chop proved much more effective against Hanley than his backhand drive.

**STAFF MEMBER TO  
CONSTRUCT SUPER  
VOLTAGE MACHINE**

Dr. Robert Van de Graaff Will  
Build Apparatus Giving  
20,000,000 Volts

**USE ROUND HILL HANGAR**

Construction of apparatus to produce electric potential of nearly 20,000,000 volts will be undertaken by Dr. Robert J. Van de Graaff, research associate at Technology, at the Institute's research station at Round Hill, Mass., within a few months, it was announced by President Karl T. Compton at Technology today. Dr. Van de Graaff's revolutionary method of producing electricity was made public by the American Institute of Physics in New York, Friday.

Dr. Compton also announced that the first public demonstration and detailed description of the new method of generating high-voltage current will be given by Dr. Van de Graaff at the first dinner of the American Institute of Physics at the New York Athletic Club next Tuesday evening.

**50,000,000 Volts as Possibility**

Dr. Van de Graaff has already built apparatus which produces direct current of 1,500,000 volts. The machine he is now designing for Technology is expected to generate between 15,000,000 and 20,000,000 volts, with the ultimate possibility that 50,000,000-volt potential may be produced by his method.

In discussing the possibilities of this new method of generating electrical energy, Dr. Compton said today, "No one can be certain just what the apparatus will do, but we know that it opens up new fields for scientific research, and there are a number of projects which have already been outlined for investigation as soon as our large generating machine is set up."

**Will Use Round Hill**

The necessity for having a very large building in which to house the new apparatus led to the offer by Colonel E. H. R. Green of the airship dock on his estate at Round Hill, where for several years Technology has been carrying on an extensive research program. Much preliminary work must be done, however, before experiments can be started, and it is expected that it will be several months before Dr. Van de Graaff's new machine will be ready for testing.

Dr. Van de Graaff's present experimental generator is a comparatively simple device consisting of two brass spheres two feet in diameter. These globes of metal are supported and insulated from the ground by glass rods. In each sphere of the device a belt of silk, operated by a motor at the base of the supporting rod and running over a pulley within the metal globe conveys the electric charge to the sphere.

Here it is stored much as the human body stores electricity generated by rubbing of shoes on a carpet. Instead of being produced by friction, however, the charge is "sprayed" on the silk belt by a method known to scientists as a "corona" or "brush" discharge. Although this voltage "sprayed" on the belt is comparatively low, the sphere becomes charged with higher and higher voltages as it picks up the stores of electricity brought to it by the belt.

**Sparks Three Feet Long**

In Dr. Van de Graaff's present 1,500,000 volt generator each sphere is charged with 750,000 volts. As an electric pressure of 1,500,000 volts is reached, sparks three feet long fly from the great brass spherical terminals.

The importance of this new generator, which produces steady or direct current, is indicated by the fact that the highest steady potentials hitherto available for

(Continued on Page Four)

**Nominations for Junior Prom Committee  
and Other Offices to be Filled at Election**

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## "LEND ME YOUR EARS"

NOTES are a great help. There is no denying the value of a good set of notes. Very often the degree of care in their preparation may mean the difference between an "H" and a "C." However, notes have their place in the scheme of things as surely as do the pieces of an Oriental puzzle, and once out of place they no longer fit.

Notes bordering on a written copy of his speech should not be the guide of the effective speaker. The orator who greets his audience by pulling a large stack of written material out of his pocket sets up a barrier between himself and those before him before he opens his mouth. The spectators probably think none the less of the speaker for his desire to have every word correct, but it puts him down as not quite knowing his job. From the viewpoint of one interested in the technique of the thing, reading notes adds a mechanical turn to the talk that makes it impossible for any sincerity of expression to exist.

It is undoubtedly much better for the average speaker to use his own words in his own phrases than to read off a speech compiled from data free from all flavor. In spite of this there are speech readers no end. Politics, business, government, all have their speech readers. Perhaps in these instances it can be overlooked, for the interest of the men in these fields is supposed to be a far cry from the spoken word. But when educators give up the most important tool of their profession and take to speech reading, then it is indeed time to pause and wonder if a man is not becoming a slave to accuracy and by this slavery losing the ability to unleash his own thoughts.

### SENIOR RINGS

WHEN one completes his course of study at Technology and by the simple ceremony of receiving a diploma joins the ranks of those who have gone before him in graduating from this institution, he takes with him not only all that he has learned during those four years but also a written symbol of his accomplishment. Those with whom he works and under whose direction his first work is carried out recognize the fact that he has graduated from the Institute and expects results commensurate with the training he has received. The knowledge that a man acquired during his undergraduate years comes to the fore immediately on his getting a job and going to work.

But in addition to these significant evidences of his academic life at the Institute, should there not be some symbol, some little token of remembrance by which he may from time to time call to mind the months and years he spent in the company with those students with whom he worked and played during his undergraduate days?

For four full years a man pursuing a course of undergraduate study at Technology lives with men of his same age, studying the same courses, doing the same problems, going to the same classes, and on the other side, seeing the same movies, attending the same theaters, and dancing on the same ballroom floors. Four years of the life of the young man, what some say are the happiest four years, are spent in the company of one group. Surely there should be some tangible reminder of those times together in the dorms, the fraternity houses, at Technology functions; a diploma does not serve, and no more does the realization that one knows more than he did previous to that four years.

Any symbol of the work, the good times, the enjoyment of the undergraduate period must be something simple, something of a conservative nature, yet something that carries with it a spirit of Technology—a bit of the matter-of-factness, the rigorousness, the conservativeness, and a little of the light spirit of Field Days, dances, and holidays. It must be something small, for nothing bulky will be long kept.

What better token could the Senior take with him from the Institute than a class ring? It has the quiet efficiency of Technology imprinted on itself, and it bears numerals indicative of the group with which a man worked for several years. It carries something of the feeling of routine and something of the gay abandon of good times; it is the suitable remembrance.

## As We See the MOVIES

### R.K.O.-Keith's

In celebration of its third anniversary, R.K.O.-Keith's is holding the eastern premiere of the much-ballyhooed "Way Back Home," first starring vehicle for Seth Parker, of radio broadcast fame. Seth Parker lives up to his reputation and turns in an entertaining, workmanlike characterization, but the rest of the cast, with the exception of "Ma" Parker and Dorothy Peterson, does not quite come up to standard. The trouble perhaps lies in the fact that there are too many "characters" in the picture, the producer evidently not realizing that there are farmers who at first sight do not show sixteen assorted peculiarities and tricks of speech.

The play is custom-built for those who like pure, sweet, wholesome sentiment and plenty of it, who want to see right triumph over might, but only after a bitter struggle, and who must have their endings of the "and so they lived happily ever after" variety. Seth Parker acts his part naturally and is really witty, except for one or two spots. The heavies, a trifle too heavy to suit, are played by Stanley Fields and Wade Boteler. One of them, the little boy's father, has a most engaging leer. Dorothy Peterson, as the girl who ran away from home in her youth, performs excellently, in a truly appealing manner. She is one of the bright spots of the film. There are of course the two young lovers whose path is none too smooth at first.

The plot, where it exists, is nothing but melodrama, as the advertisements admit, but it is fairly good melodrama, with plenty of humor and singing to lighten it. There is also a wild horse and buggy chase at the end of which the family Bible is used to crown the villain.

## CATHOLIC CLUB WILL HOLD SPORTS SMOKER

John Finnerty '32, president of the Technology Catholic Club, announced last night that the club's smoker, scheduled for next Tuesday evening, has been postponed until December 2. The affair is to be a sports smoker. Several men prominent in sports in and around Boston, including Jack Sharkey, will be invited to attend.

The coeds at the University of Arizona have decided to pay half of all dating expenses and therefore they may ask for dates.

## Miss Amy P. Row, New Matron, Has Traveled Widely

### Tells of a Cannibal Considering Her Arm as "A Good Bone To Pick"

(In the last issue an account of an interview with Miss Row, new matron of Walker Memorial, was begun. Today we continue that interview, completing her comments of Gandhi and giving other facts of her interesting life as she described them.)

His poorly-clad East End neighbors have taken a remarkable interest in Gandhi's every move, according to Miss Row, and his comings and goings are important daily events in the district. One keen Cockney observer noticed every evening upon the famous man's return to his quarters a small white object being hoisted to the roof. It turned out to be Mr. Gandhi's daily wash, one loincloth. Now the event is greeted regularly with delighted cries through the crowded streets: "E's 'ome!"

Although many amusing stories are told of the Mahatma, Mr. Gandhi himself gives evidence of a keen sense of humor, declared Miss Row, at the same time impressing one with his firmness of opinion.

### From British Stock

In the international scope of her activities, Miss Row is but carrying on the tradition of her typically British family. Her brother, Arthur, was one of the hardy group that went with Scott and Shackleton on their Antarctic explorations. Her father, Capt. John H. Row, was for forty years engaged in the British India Service and in scientific and social work among the seafaring and fisher castes in India.

Born in Cornwall, England, and educated at Bella Vista College, Miss Row at the age of twenty-three, left a position at the East London Children's Hospital to travel for five years through Norway, Belgium, South Africa, Australia, Tasmania, Canada and New Zealand. At Whanganui and Whararata, New Zealand, she spent two years in missionary work among the Maoris, native tribes of the island, under the direction of the Rev. Fred H. Spencer of the British and Foreign Bible Society.

### Maoris No Longer Cannibals

The Maoris, only a few score years removed from cannibalism, resemble Mexicans in color, according to Miss Row, and live on reservations very much like the

American Indians. Some of them have amassed enormous wealth in cultivating land and sheep stations, as well as in semi-precious stones, live luxuriously and send their children to be educated in English schools, yet brilliant tattooing is still common among them and even the proud display of somebody's tooth sticking through the ear or nose of a village dandy.

A very old and wrinkled Maori chief once approached Miss Row, seized her hand, and gravely pronounced it "Kopai te pik," (a good bone to pick). Notwithstanding which, Miss Row still maintains that New Zealand is one of the world's loveliest and most progressive spots!

### Active In Social Work

Since making her home in America, Miss Row's work in various religions, social, and educational capacities has taken her into many sections of the country. Her keen interest in foreign students and their problems led her to establish a small

(Continued on Page Four)

fine arts THEATRE BUILDING now!

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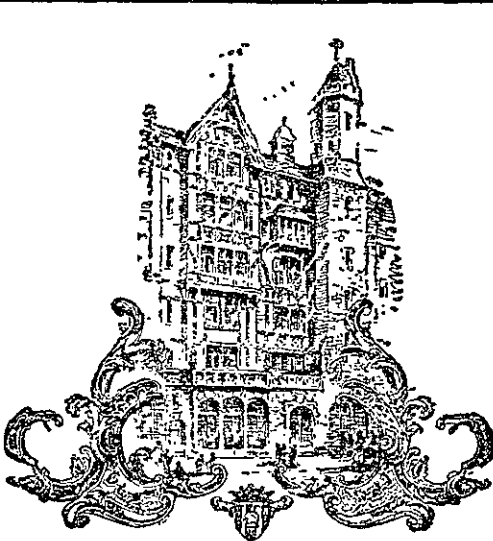
long to give you a cool, slow-burning smoke. And its mellow flavor and rich aromahavemade Edgeworth the favorite pipe tobacco on 42 out of 50 campuses.

Help yourself to a pipeful next time someone pulls Edgeworth out of his pocket. Pick up the familiar blue tin yourself at any good tobacco stand. Or for a special free sample packet write to Larus & Bro. Co., 105 S. 22d St., Richmond, Va.

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FIFTH AVENUE AT FORTY-SIXTH STREET



### T. C. A. WILL WELCOME FURTHER DONATIONS

(Continued from Page One)

As usual, the fraternity men were the most generous donors, their total being \$1035.65. Residents of the dormitories gave a total of \$1022.75, and the Free Lancers reported contributions of \$1649.20. It is hoped that the total will be increased to some degree by late returns, as two fraternities and several of the Free Lancers have not reported as yet. If there are any students who would like to contribute to the T.C.A. funds or to increase his present contribution he may do so at the T.C.A. office.

In making their contributions students were requested to indicate the department of the T.C.A. in which they prefer to have their gift used. No figures to show the preference of the student body as a whole have been compiled from this information as yet, but they will be published later.

### Away from the Grind

Technology's social season continued this weekend with a swirl of dances given at fraternity houses and Walker Memorial. As the closing function, Scabbard and Blade will give their dance at the Commander in Cambridge, tomorrow night.

**Chi Phi**  
Friday evening Chi Phi entertained about one hundred couples at an open house dance given at the chapter house on the Fenway. Sammy Liner and his Orchestra played for dancing from 9 till 12 and again till 1 o'clock after the intermission. Mr. and Mrs. D. H. Van Vleck served as chaperones.

**Beta Theta Pi**  
A hundred couples enjoyed the hospitality of the Beta's, Friday night at their dance, which lasted from 9 till 2 o'clock. The Kentucky Colonels played. Mr. and Mrs. Avery Stanton and Mr. and Mrs. Horace Dennison, of Winchester, and Mr. and Mrs. Frank P. Scully, of Cambridge, chaperoned the affair.

The annual Pledge Dance of the Psi Delt's, honoring the new pledges, was held Friday evening and was enjoyed by the 150 couples who attended. Mr. and Mrs. Raymond, of Medford, chaperoned.

**Musical Clubs**  
A large group attended the first Fall Concert and Dance given by the Combined Musical Clubs in several years. The concert was well received and dancing was enjoyed in the Main Hall of Walker Memorial after the concert until 1 o'clock. Attendance at the concert and dance was somewhat larger than that at previous affairs of this kind.

**Sigma Alpha Mu**  
Honoring the chapters of their fraternity at Dartmouth and Harvard, the Sigma Alpha Mu's gave a formal dance at their house on Bay State Road Saturday night from 9 till 1.30 o'clock. Indirect lighting playing through a design of the fraternity pin, and the three chapter names, was the principal feature of the decorations. Mr. and Mrs. L. C. Peskin served as chaperones.

**Catholic Club**  
"Art" Marshall's orchestra furnished the music for the Technology Catholic Club's twenty-fifth annual fall dance held in the Main Hall of Walker, Saturday evening. Dancing was from 8 o'clock until midnight, and more than 350 couples attended the affair. Mr. and Mrs. Harold F. McDonald and Professor M. R. Copithorne were chaperones.

A new excuse for leaving school was heard by the registrar at the University of Alabama the other day. A student told the registrar that he was leaving school because he had tried all the barbers in town and none of them would cut his hair right.

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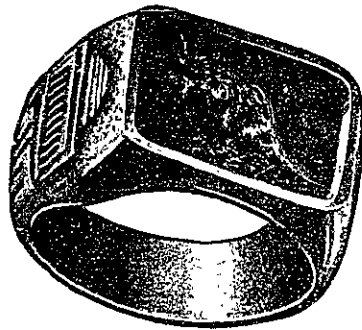
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### MORTAR AND BALL POSTPONES INITIATION

Mortar and Ball's initiation dance scheduled for December 4 has been postponed to December 18. It will be held at North Hall, Walker, as originally planned, and the chaperones will be Major and Mrs. P. H. Ottosen, Captain and Mrs. C. E. Atkinson, and Colonel and Mrs. R. Arthur.

**Correction**  
There appeared in the last Friday's issue of THE TECH an error in the name of the concern which manufactures the Senior Ring. The name should have appeared as Bates and Klinke. Any inconvenience caused by the unfortunate error is regretted by the staff of THE TECH.

### ATTENTION, SENIORS



**M. I. T. LARGE, STANDARD AND MINIATURE RINGS**  
Place orders for your Class Ring with Frank A. Chace, Jr. A complete display will be made in the lobby of the Main Building  
**NOVEMBER 9 TO 13, INCLUSIVE**  
**DELIVERY DECEMBER 16**  
*Manufactured Exclusively By*  
**BATES & KLINKE, Inc.**  
Attleboro, Massachusetts  
FRANK A. CHACE, JR.

Another successful RENTAL season for our  
**DOUBLE BREASTED TUXEDO**  
at student rate of \$2.25 ♦ Single Breasted \$1.50  
**—READ & WHITE—**  
111 Summer Street ♦ BOSTON ♦ 93 Massachusetts Ave.

## BOSTON

On a Night Like This  
—Before the SHOW  
—or at MIDNIGHT

HERE you'll find Boston's most thoroughly enjoyable dinner and supper dance-assemblies—delicious food, delightful music and good company always! Gala programs every Wednesday and Thursday evening with **Leo Reisman, in person, directing.**

Dinners \$1.50-\$2-\$2.50—no couvert.  
Supper-couvert \$1 every night—no minimum charge.

**14th**  
Successive Season  
**LEO REISMAN'S**  
ORIGINAL ORCHESTRA  
•  
WED. and THURS. Eve.  
•  
DANCING 6:30-2 A. M.

## THE HOTEL BRUNSWICK EGYPTIAN ROOM

Boylston St. at Copley Sq. — Ample Parking

## "I insist on Lucky Strike"

"There's nothing like a microphone to show up the voice in its true colors. So I insist on Lucky Strike—the cigarette that I know will be kind to my throat. And you've certainly scored another hit with your new style Cellophane wrapper that opens so easily."

*Sally Eilers*



Sally Eilers will always call this her big year. First, she learned to fly a plane. Then she married and found domestic bliss. Then she made a smashing success in "Bad Girl." As a reward Fox is co-starring her in "Over the Hill."

\*\*\*\*\*

Made of the finest tobaccos—The Cream of many Crops—LUCKY STRIKE alone offers the throat protection of the exclusive "TOASTING" Process which includes the use of modern Ultra Violet Rays—the process that expels certain harsh, biting irritants naturally present in every tobacco leaf. These expelled irritants are not present in your LUCKY STRIKE. "They're out—so they can't be in!" No wonder LUCKIES are always kind to your throat.

## "It's toasted"

Your Throat Protection—against irritation—against cough

And Moisture-Proof Cellophane Keeps that "Toasted" Flavor Ever Fresh

TUNE IN—The Lucky Strike Dance Hour, every Tuesday, Thursday and Saturday evening over N. B. C. networks

★ Is Miss Eilers' Statement Paid For?  
You may be interested in knowing that not one cent was paid to Miss Eilers to make the above statement. Miss Eilers has been a smoker of LUCKY STRIKE cigarettes for 2½ years. We hope the publicity herewith given will be as beneficial to her and to Fox, her producers, as her endorsement of LUCKIES is to you and to us.

**LUCKY STRIKE**  
"IT'S TOASTED"  
CIGARETTES

Coop., 1831.  
The American Tobacco Co.

#### MOISTURE-PROOF CELLOPHANE

Sealed Tight—Ever Right  
The Unique Humidor Package  
Zip—And it's open!

See the new notched tab on the top of the package. Hold down one half with your thumb. Tear off the other half. Simple. Quick. Zip! That's all. Unique! Wrapped in dust-proof, moisture-proof, germ-proof Cellophane. Clean, protected, neat, FRESH!—what could be more modern than LUCKIES' improved Humidor package—so easy to open! Ladies—the LUCKY TAB is—your finger nail protection.

## CALENDAR

Monday, November 9

2.00 p.m. — Cross-Country run at Franklin Park.  
5.00 p.m. — Banjo Club rehearsal in East Lounge of Walker Memorial.  
6.00 p.m. — Dormitory dinner in Main Hall of Walker Memorial.  
7.30 p.m. — Catholic Club smoker meeting in Faculty Dining Room of Walker Memorial.

Tuesday, November 10

9.00 a.m.-5.00 p.m. — Freshman and Junior Prom elections in Main Lobby.  
5.00 p.m. — Scabbard and Blade meeting in Room 3-307.  
6.00 p.m. — Instrumental Club rehearsal in East Lounge of Walker Memorial.  
6.15 p.m. — Alpha Chi Sigma supper meeting in Faculty Dining Room of Walker Memorial.  
8.00 p.m. — Lowell Institute Alumni dance in Main Hall of Walker Memorial.  
9.00 p.m. — Scabbard and Blade Ball at Commander Hotel, Cambridge.

### Staff Member Will Build Apparatus To Give High Voltage

**Dr. Robert Van de Graaff Will  
Construct 20,000,000  
Volt Machine**

(Continued from Page One)

researches have been less than 600,000 volts. In only a few laboratories in the world is steady current of more than 300,000 volts obtainable. In every case the apparatus to produce this current is extremely expensive, elaborate, and heavy, while Dr. Van de Graaff's device costs but a few hundred dollars. The experimental model generating 1,500,000 volts was built for \$90.

In the apparatus which Dr. Van de Graaff will build in the airship dock at Round Hill the huge metal terminal spheres will be fifteen feet in diameter. Each will be mounted on towers twenty feet high and constructed to permit variation of the distance between the spheres. The operator of the apparatus will sit within one of the spheres. His body as well as the sphere will be charged up to several million volts, but since he will be entirely surrounded by metal this tremendous charge will have no effect upon him.

#### New Fields

Dr. Van de Graaff's discovery is expected to extend the frontiers of research into hitherto unexplored fields. The successful development of his generator on a large scale will mean that at such high voltages it will be possible to project electrons and positive ions with velocities comparable to those of radium, but in quantities millions of millions of times greater than can be obtained from any radio-active source. This should make possible studies of the transmutation of the elements, and would be an approach to investigations looking to the utilization of atomic energy.

Dr. Van de Graaff's generator is also expected to make possible studies of X-rays of many millions of volts, including investigations of their therapeutic value. It would also make possible a more accurate estimate of the wave length of cosmic rays than is now possible, and would therefore have a predominating influence on the astro-physical theories on the fate of the universe.

#### More Efficient Motor

With modern high vacuum technique and with a source of voltage of the magnitude expected, calculations indicate that it should be possible to construct a motor, operating on electrostatic forces, which would be tremendously efficient.

Dr. Van de Graaff is less than thirty years old. He was graduated from the University of Alabama in 1922, and a year later received the degree of master of science from the same institution. In 1925 he was appointed a Rhodes scholar, was awarded the degree of bachelor of science at Oxford University in 1926 and the degree of doctor of philosophy in 1928. In the following year he was a National Research Fellow at Oxford, and was awarded a similar fellowship for study at Princeton from 1929-31. Dr. Van de Graaff conceived the idea for the development of his source of high voltage current while at Oxford, and built his first experimental generator at Princeton.

#### FOOTBALL TICKETS

The T.C.A. ticket service will endeavor to secure tickets for the Dartmouth-Stanford game, to be held November 28 at the Stadium, for those who desire them. Tickets will be \$4 each. Applications with money should be left at the T.C.A. office before noon tomorrow.

### CANNIBAL CONSIDERS ARM "A FINE BONE"

(Continued from Page Two)

International House in Cambridge in 1924, and to head it for a year. The Chinese Flood Relief Committee recently organized by students at the Institute is finding Miss Row a valuable aid, as have half a dozen other welfare and educational organizations in Boston and Cambridge.

As for her new duties at Technology, Miss Row is, to use her own words, "still feeling her way," but apparently is having no difficulty in discovering means for aiding many students. As one who is never too busy to talk, who listens as well as she talks, and brings to her friendships a wealth of experience combined with young enthusiasm, she should soon find an indispensable place at Technology.

An economic revolution is in progress at Rhode Island State College, where for nearly forty years professors have been obliged to serve as their own milkmen. Hereafter milk from the college herd of forty cows will be bottled and delivered to Faculty members at twelve cents a quart.

The Purdue University women are now given the opportunity to attend a 'charm' school," where they learn such important things as how to hold a cigarette gracefully, and how to avoid spilling cocktails on their best party gowns.

**FOR SALE**  
A DISTINCTIVE LINE OF  
**Christmas Greeting Cards**  
With Engraved Tech Seals  
**HENRY BRAUN '32**  
Telephone :: Commonwealth 7775

### STODDER

MEN'S SHOES

## "Johnston & Murphy"

**Shoes at new lower prices**

In an earnest effort to meet present conditions we have re-priced this highest grade of men's footwear. Six styles are now available at this new price.

**\$12.50**

The "Envoy," a beautiful narrow toe model, in tan and black.  
The "Highland," a handsome broad toe model in tan and black.  
The "Mayfair," a new medium English toe model in tan and black.

**COES AND STODDER**

10 to 14 SCHOOL STREET

*"I liked Chesterfield  
right from the start"*

"NO, I don't know a blessed thing about how cigarettes are made. But, of course, I would want the tobacco to be PURE. And then I've heard that the blending is very important. I'd want *that* to be done just right.

"Then the paper. I don't like paper that you can taste—or smell when it's burning. I'd want that pure too.

"Another thing. I want to smoke whenever I feel like it—without worrying about smoking too many. So I want my cigarettes MILD.

"But the main thing, of course, is TASTE. I don't care for over-sweetened cigarettes. I much prefer those that are just sweet enough.

"Chesterfield seems to satisfy in every one of these ways. That is why I'd rather have a Chesterfield."



SMOKERS tire of too much sweetness in a cigarette, and they don't like rawness. For a steady diet, they want a cigarette like CHESTERFIELD — a mild and mellow smoke, free from any over-sweetness or any harshness or bitterness. That's why more and more smokers every day are changing to CHESTERFIELD.

Good ... they've got to be good.

### New 1931 Chevrolet SPORT ROADSTER

A beautiful car at a very low price

May Be Seen At  
**CAMBRIDGE MOTOR CO.**  
277 Massachusetts Avenue, Cambridge  
TELEPHONE UNIVERSITY 6400  
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